LS *ELECTRIC*

XGB Software

XG5000 and XG-PM Software for XGB Series PLC

XG5000 and XG-PM are the powerful software combination used to program and configure the LS Electric XGB Series PLC. Both packages are installed with a single executable file for XG5000.

LS XG5000
PLC Programming

XG5000
Offers four languages from the IEC61131-3-3 PLC programming standard.

- Ladder Diagram (LD): includes over 700 advanced function blocks for use, with over 80 motion and position functions.
- Structured Text (ST): a text based language which is a powerful tool for advanced motion programming and data handling.
- Sequential Function Chart (SFC) and Instruction List (IL) are also supported.

The software uses Symbolic (also called Automatic) variables created by the user. These can be created as global or local task variables, and can be aliased to direct variables. Variables can be imported/exported for quick editing in spreadsheet format.

Other features include User data types/function blocks, XY Trend for motion visualization, online system information, simulator, EDS file library for EtherNet/IP communications, and much more.

LS XG-PM
Position Control

XG-PM
XG-PM Position control software is used to configure the pulse-based or EtherCAT-based motion features in the XGB series PLC. Configuration of up to 400 motion positions per axis via table entry makes setting up complex motion applications simple. The Command Tool allows for quick testing, and online edits per axis make maintenance changes quick and easy. Access XG-PM from the XG5000 Main menu-> Tools ->Position Control.
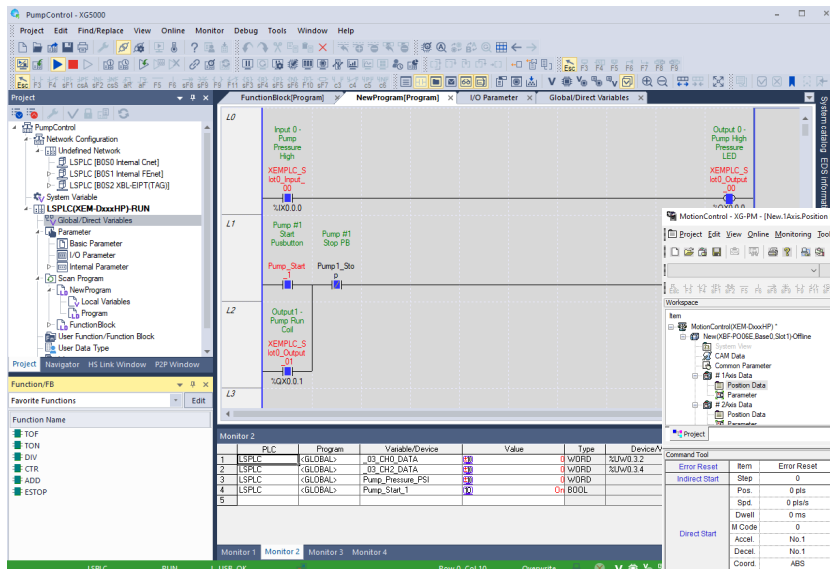
XG5000 Main Screen

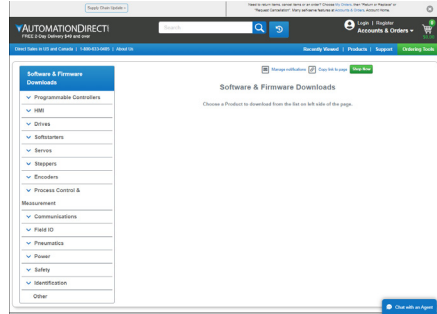**XG-PM Table-based Position Configuration**


Structured Text Editor

LS ELECTRIC
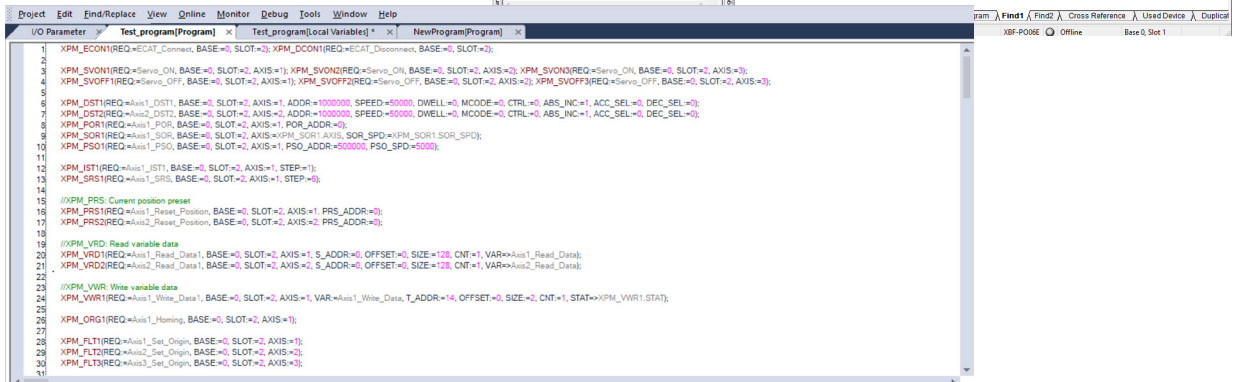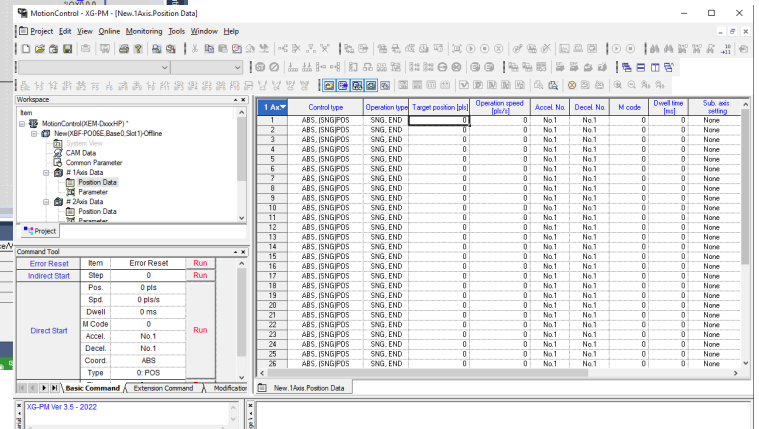
XGB Software

XG5000 Software Setup

View the XG5000 overview topic in the LS PLC Interactive Guide here: Starting an XG5000 Project

**1** Download and install XG5000 software: Download Software

2 Connect your processor to a laptop using USB, Ethernet, or Serial cable (as preferred). Default IP address in the processor is 192.168.250.120.

USB Mini-B

Ethernet

Serial RS-232C
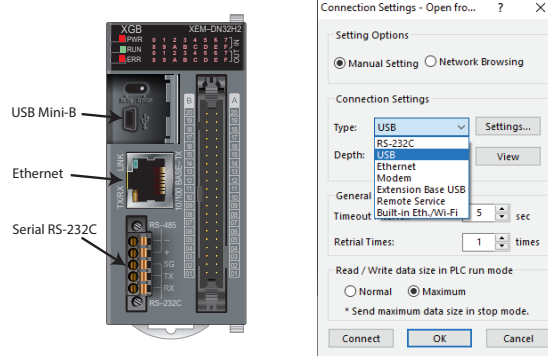
3 Open XG5000. From the top menu select **Project → New Project**.

Enter a project name, choose your CPU, add a program name, then click OK to save.

Add Project Name

Choose CPU Series **XGB(IEC)**

Choose CPU Type **XEM-DxxxH2 or HP**

Add Program Name
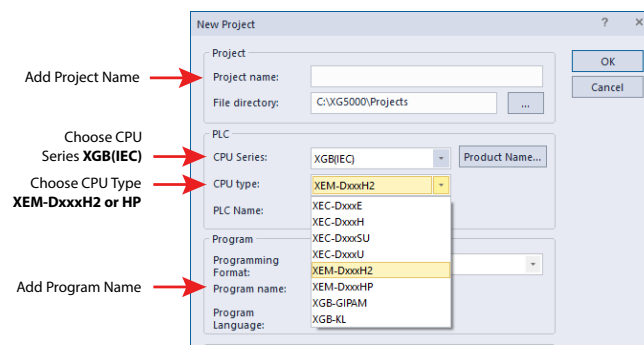
4 Choose **Parameter → I/O Parameter** from the project menu bar.

Select a slot from the bottom menu, then use the drop down under **Module** to add modules.

See the video under Adding Modules for going online and uploading I/O configuration from your rack.